

Application No.: 10/604,349
Filed: July 14, 2003
Page 2 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-18. (Canceled)

19. (Currently Amended) The door assembly of claim ~~1869~~, wherein the adjuster further comprises a bias adjuster to control the damping force imparted onto the counterweight by the arm.

20. (Previously Amended) The door assembly of claim 19, wherein the bias adjuster comprises a threaded fastener that is mounted through the cover and contacts the arm between the first and second ends of the arm so that movement of the threaded fastener towards the arm increases the amount of damping force exerted by the arm and movement of the threaded fastener away from the arm decreases the amount of damping force exerted by the arm.

21. (Currently Amended) The door assembly of claim ~~1869~~, wherein the arm is comprised of a resilient material.

22. (Currently Amended) The door assembly of claim ~~1869~~, wherein the adjuster further comprises a spring mounted between the cover and the second end of the arm, wherein the spring biases the arm towards the counterweight.

23-45. (Canceled)

46. (Currently Amended) The kit of claim ~~4570~~, wherein the adjuster further comprises a bias adjuster to control the damping force imparted onto the counterweight by the arm.

47. (Previously Amended) The kit of claim 46, wherein the bias adjuster comprises a threaded fastener adapted to be mounted through the cover, wherein when the threaded fastener is mounted through the cover, the threaded fastener contacts the arm between the first and second ends of the arm, and movement of the threaded fastener towards the arm increases the amount of damping

Application No.: 10/604,349
Filed: July 14, 2003
Page 3 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

force exerted by the arm to the counterweight and movement of the threaded fastener away from the arm decreases the amount of damping force exerted by the arm to the counterweight.

48. (Currently Amended) The kit of claim 4570, wherein the arm is comprised of a resilient material.

49. (Currently Amended) The kit of claim 4570, wherein the adjuster further comprises a spring adapted to be mounted between the cover and the second end of the arm, wherein when the spring is mounted between the cover and the second end of the arm, the spring biases the arm towards the counterweight.

50-57. (Canceled)

58. (Previously Presented) A door assembly comprising:

- a door frame having a door jamb and defining a central opening therein through which ingress and egress can occur;
- a door slidable in the door frame between a door open position permitting travel through the central opening and a door closed position obstructing travel through the central opening; and
- an automatic closure system comprising:
 - a cable with a first end and a second end, wherein the first end is mounted to an upper portion of the sliding door;
 - a counterweight connected at the second end of the cable and movable along a path between a counterweight open position when the sliding door is in the door open position and a counterweight closed position when the sliding door is in the door closed position, wherein the counterweight open position is above the counterweight closed position; and
 - a pulley mounted to the door frame for redirecting the cable from a generally horizontal orientation near the first end to a generally vertical orientation near the second end; and
 - an adjuster to control movement of the counterweight between the counterweight open and counterweight closed positions and comprising an arm extending into the path of the counterweight;

wherein when a force is applied to the sliding door to cause the sliding door to slide to the door open position, the counterweight is elevated from the counterweight closed position along

Application No.: 10/604,349
Filed: July 14, 2003
Page 4 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

the path to the counterweight open position by virtue of the attachment of the cable to the sliding door via the pulley, and when the force is released, the arm abuts the counterweight and imparts a damping force to the counterweight as it descends along the path to the counterweight closed position to slow movement of the counterweight as it returns the sliding door to the door closed position.

59. (Previously Presented) The door assembly according to claim 58, wherein the automatic closure system further comprises a cover mounted on the door jamb to visually conceal the pulley, the second end of the cable, the counterweight, and the arm.

60. (Previously Presented) The door assembly according to claim 59, wherein the arm comprises a first end mounted to one of the cover and the door frame and a second end that extends into the path to abut the counterweight as it moves from the counterweight open position to the counterweight closed position.

61. (Previously Presented) The door assembly according to claim 60, wherein the adjuster further comprises a spring mounted between the one of the door frame and the cover and the arm to bias the arm toward the counterweight.

62-64. (Canceled)

65. (Previously Presented) A kit for adapting a sliding door mounted within a door frame having a door jamb to automatically move between a door open position permitting travel therethrough and a door closed position obstructing travel therethrough, the kit comprising:

a cable with a first end and a second end, wherein the first end is adapted to be mounted to the sliding door;

a counterweight adapted to be connected at the second end of the cable and movable along a path between a counterweight open position when the sliding door is in the door open position and a counterweight closed position when the sliding door is in the door closed position;

a pulley adapted to be mounted to the door frame for redirecting the cable from a generally horizontal orientation near the first end to a generally vertical orientation near the second end; and

Application No.: 10/604,349
Filed: July 14, 2003
Page 5 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

an adjuster adapted to control movement of the counterweight between the counterweight open and counterweight closed positions and comprising an arm extending into the path of the counterweight;

wherein, when the pulley is mounted to the door frame and when the first end of the cable is mounted to the sliding door, passed through the pulley and has its second end mounted to the counterweight, the sliding door will automatically move between the door open position and the door closed position after a force is applied to the sliding door to cause the sliding door to move to the door open position whereby when the force is released, the arm abuts the counterweight and imparts a damping force to the counterweight as it descends along the path from the counterweight open position to the counterweight closed position to slow movement of the counterweight as it returns the sliding door to the door closed position.

66. (Previously Presented) The kit of claim 65 and further comprising a cover adapted to be mounted on the door jamb to visually conceal the pulley, the second end of the cable, the counterweight, and the arm.

67. (Previously Presented) The kit according to claim 66, wherein the arm comprises a first end adapted to be mounted to one of the cover and the door frame and a second end adapted to extend into the path to abut the counterweight as it moves from the counterweight open position to the counterweight closed position.

68. (Previously Presented) The kit according to claim 67, wherein the adjuster further comprises a spring adapted to be mounted between the one of the door frame and the cover and the arm to bias the arm toward the counterweight.

69. (New) A door assembly comprising:
a door frame having a door jamb and defining a central opening therein through which ingress and egress can occur;
a door slidable in the door frame between a door open position permitting travel through the central opening and a door closed position obstructing travel through the central opening; and
an automatic closure system comprising:

Application No.: 10/604,349
Filed: July 14, 2003
Page 6 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

a cable with a first end and a second end, wherein the first end is mounted to an upper portion of the sliding door;

a counterweight connected at the second end of the cable and movable between a counterweight open position when the sliding door is in the door open position and a counterweight closed position when the sliding door is in the door closed position, wherein the counterweight open position is above the counterweight closed position;

a pulley mounted to the door frame for redirecting the cable from a generally horizontal orientation near the first end to a generally vertical orientation near the second end;

a cover mounted on the door jamb to visually conceal the pulley, the second end of the cable, and the counterweight; and

an adjuster to control movement of the counterweight between the counterweight open and counterweight closed positions and comprising an arm having a first end mounted to the cover and a second end that extends towards the door jamb and abuts the counterweight as it moves between the counterweight open and counterweight closed positions; and

wherein when a force is applied to the sliding door to cause the sliding door to slide to the door open position, the counterweight is elevated from the counterweight closed position to the counterweight open position by virtue of the attachment of the cable to the sliding door via the pulley, and when the force is released, the counterweight descends to the counterweight closed position thereby returning the sliding door to the door closed position; and

wherein the second end of the arm imparts a damping force onto the counterweight as it moves between the counterweight open and counterweight closed positions, thereby causing the sliding door to move more slowly between the door open position and the door closed position.

70. (New) A kit for adapting a sliding door mounted within a door frame having a door jamb to automatically move between a door open position permitting travel therethrough and a door closed position obstructing travel therethrough, the kit comprising:

a cable with a first end and a second end, wherein the first end is adapted to be mounted to the sliding door;

a counterweight adapted to be connected at the second end of the cable and movable between a counterweight open position when the sliding door is in the door open position and a counterweight closed position when the sliding door is in the door closed position;

Application No.: 10/604,349
Filed: July 14, 2003
Page 7 of 9

Examiner: Blair M. Johnson
Group Art Unit: 3634

a pulley adapted to be mounted to the door frame for redirecting the cable from a generally horizontal orientation near the first end to a generally vertical orientation near the second end;

a cover adapted to be mounted on the door jamb, wherein when the cover is mounted on the door jamb, the pulley, the second end of the cable, and the counterweight are visually concealed; and

an adjuster to control movement of the counterweight between the counterweight open and counterweight closed positions and comprising an arm having a first end adapted to be mounted to the cover and a second end;

wherein, when the pulley is mounted to the door frame and when the first end of the cable is mounted to the sliding door, passed through the pulley and has its second end mounted to the counterweight, the sliding door will automatically move between the door open position and the door closed position after a force is applied to the sliding door to cause the sliding door to move to the door open position whereby when the force is released, the counterweight descends to the counterweight closed position thereby moving the sliding door to the door closed position; and

wherein when the cover is mounted to the door jamb and the first end of the arm is mounted to the cover, the second end of the arm extends towards the door jamb and abuts and imparts a damping force onto the counterweight as it moves between the counterweight open and counterweight closed positions, thereby causing the sliding door to move more slowly between the door open position and the door closed position.